

## AMENDMENTS

### AMENDMENT TO THE PRIORITY CLAIM

*At Page 1, Paragraph 1, Lines 11-13, please amend the specification as follows:*

~~This application is related to copending patent application 08/946,341 filed October 7, 1997 which is herein incorporated by reference. This application is a continuation of application Serial No. 09/041,809 filed March 13, 1998, now abandoned, which is a continuation-in-part of application Serial No. 08/946,341 filed October 7, 1997, now Patent No. 5,997,476, which is a continuation-in-part of application Serial No. 08/847,009 filed April 30, 1997, now Patent No. 5,897,493, which claims priority to provisional application Serial No. 60/041,746 filed on March 28, 1997 and provisional application Serial No. 60/041,751 filed on March 28, 1997.~~

This application is also a continuation-in-part of application Serial No. 09/378,188 filed on August 20, 1999, now abandoned, which is a continuation of application Serial No. 08/850,840 filed on May 3, 1997 now Patent No. 5,985,559, which is a continuation of application Serial No. 08/847,009 filed April 30, 1997, now Patent No. 5,897,493, which claims priority to provisional application Serial No. 60/041,746 filed on March 28, 1997 and provisional application Serial No. 60/041,751 filed on March 28, 1997. All applications, except to the extent, if any, such incorporation would constitute new matter, are herein incorporated by reference in their entirety as if fully set forth herein.



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## **AMENDMENT TO THE CLAIMS**

Please cancel Claims 30-36.

Please add Claims 37-52 as follows.

Claims 1-20 (canceled)

Claims 21-29 (canceled)

Claims 30-36 (canceled)

37. (new) A method for identifying a disease-influencing gene comprising:

- selecting individuals having a risk factor for a disease;
- providing to each individual a communications apparatus;
- sending queries to each individual through the apparatus;
- receiving responses to the queries from the apparatus;
- storing the responses of each individual;
- categorizing the individuals into groups based on the responses;
- sequencing the genomes of each individual in each group; and
- determining gene differences between each group.

38. (new) The method of Claim 37, wherein the queries are script-based and are adjustable to each individual.

39. (new) The method of Claim 38, wherein the queries are adjustable with a script generator using initial and updated responses received from an individual.



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40. (new) The method of Claim 37, wherein categorizing the individuals into groups includes one of the phenotypic classifications from the set of behavioral, environmental, and disease progression.

41. (new) The method of Claim 40 wherein the gene differences between groups is expressed by genetic expression among the phenotypic classifications.

42. (new) The method of claim 37, wherein the communication apparatus is connectable with a monitoring device configured to acquire physiologic data.

43. (new) The method of claim 42, wherein the monitoring device includes one of the set consisting of a blood glucose meter, a respiratory flow meter, a blood pressure cuff, a weight scale, and a pulse rate monitor.

44. (new) A system for identifying a disease-influencing gene comprising:

a communications apparatus operable by an individual; and

a communication network in signal communication with the communications apparatus and a server, a workstation configured to send scripted queries, a genotyping system configured to provide genome sequences of the individual, and a patient profile system configured to receive responses from the individual and genome analyses via the communications network and the server,

whereby gene sequences from the genome analyses are compared with the responses to the scripted queries in the patient profile system to identify a disease influencing gene in the individual.



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45.(new) The method of Claim 44, wherein the scripted queries and are adjustable to the individual using a script generator configured to develop initial and updated queries in accord with responses from the individual.

46. (new) The method of Claim 44, wherein the responses from the individual are compared with the genome analyses of the individual to categorize each gene analysis according to disease progression.

47. (new) The method of Claim 46, wherein the disease progression includes non-insulin dependent diabetes.

48.(new) A system for identifying a disease-influencing gene comprising:

- at least one communications apparatus in signal communication with a monitoring device configured to measure physiologic and environmental conditions, the communications apparatus and monitoring device being operable by at least one individual; and
- a communication network in signal communications with each communications apparatus and a server, a workstation configured to send scripted queries, a genotyping system configured to provide genome sequences of each individual, and a patient profile system configured to receive responses and measurements from the individual and genome analyses via the communications network and the server,



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whereby gene sequences from the genome analyses are compared with the responses and measurements to the scripted queries in the patient profile system to identify a disease influencing gene in each individual.

49.(new) The method of Claim 48, wherein the scripted queries and are adjustable to each individual using a script generator configured to develop initial and updated queries in accord with responses from each individual.

50. (new) The method of Claim 48, wherein the monitoring device includes one of the set consisting of a blood glucose meter, a respiratory flow meter, a blood pressure cuff, a weight scale, and a pulse rate monitor.

51. (new) The method of Claim 48, wherein the responses and measurements from each individual are compared with the genome analyses of each individual to categorize each gene analysis according to disease progression of each individual into groups based on the responses and measurements sent by each individual.

52. (new) The method of Claim 48, wherein the disease progression includes non-insulin dependent diabetes.



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